

Decimals

Knowledge Organiser

Key Vocabulary

Tenths and Hundredths

Fraction and Decimal Equivalents

tenths

hundredths

decimal tenths

decimal hundredths

decimal equivalents

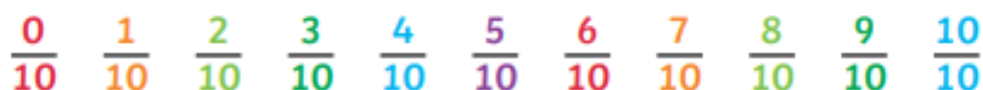
part-whole model

rounding

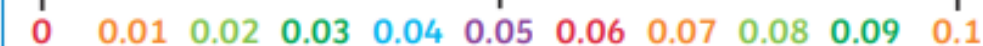
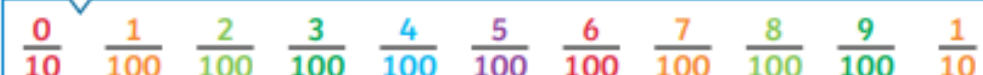
decimal point

place value

Tenths



Hundredths



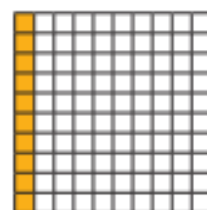
Tenth and Hundredth Decimal Equivalents

$$= \frac{1}{2} = 0.5$$

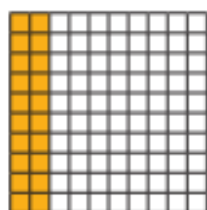
$$= \frac{1}{4} = 0.25$$

$$= \frac{3}{4} = 0.75$$

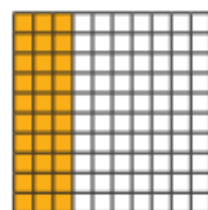
$$= \frac{1}{10} = 0.1$$



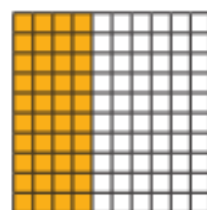
$$\frac{1}{10} = \frac{10}{100} = 0.1$$



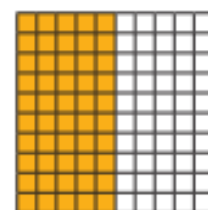
$$\frac{2}{10} = \frac{20}{100} = 0.2$$



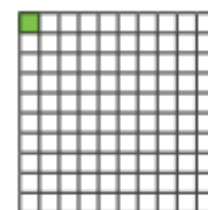
$$\frac{3}{10} = \frac{30}{100} = 0.3$$



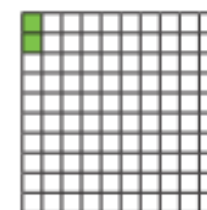
$$\frac{4}{10} = \frac{40}{100} = 0.4$$



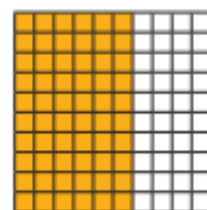
$$\frac{5}{10} = \frac{50}{100} = 0.5$$



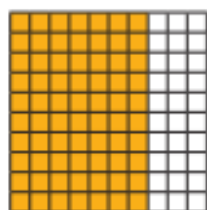
$$\frac{1}{100} = 0.01$$



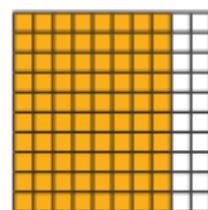
$$\frac{2}{100} = 0.02$$



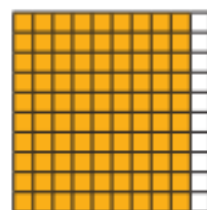
$$\frac{6}{10} = \frac{60}{100} = 0.6$$



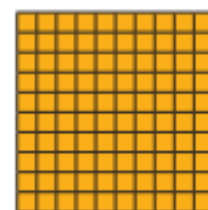
$$\frac{7}{10} = \frac{70}{100} = 0.7$$



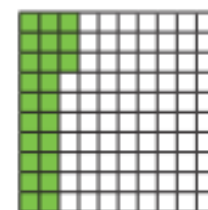
$$\frac{8}{10} = \frac{80}{100} = 0.8$$



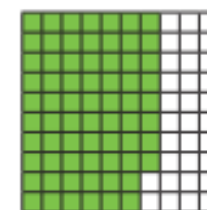
$$\frac{9}{10} = \frac{90}{100} = 0.9$$



$$\frac{10}{10} = \frac{100}{100} = 1$$



$$\frac{23}{100} = 0.23$$



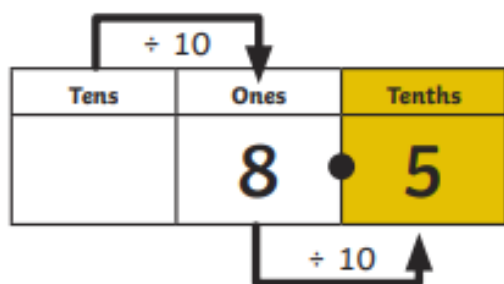
$$\frac{68}{100} = 0.68$$

Decimals

Knowledge Organiser

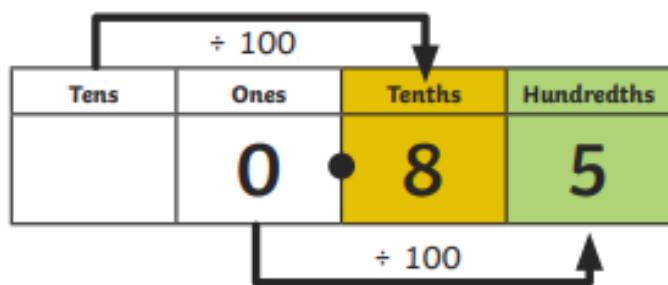
Dividing by 10

Tens	Ones	
8	5	$\div 10$

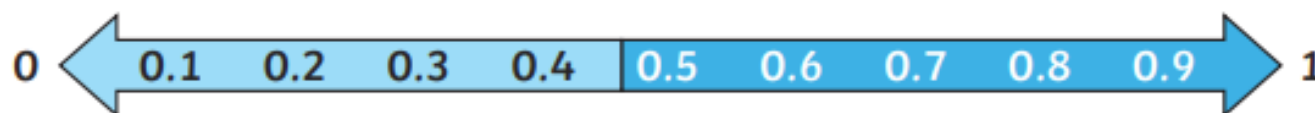


Dividing by 100

Tens	Ones	
8	5	$\div 100$



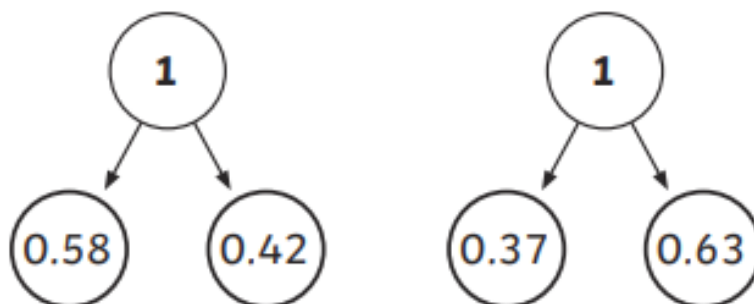
Rounding Decimals



If the tenths digit is **1, 2, 3 or 4**, we round **down** to the nearest whole number.

If the tenths digit is **5, 6, 7, 8 or 9**, we round **up** to the nearest whole number.

Make a Whole



Partitioning Tenths and Hundredths



Comparing Numbers with Two Decimal Places

